

Atty. Docket No.: SIG000108

Patent Application No. 10/718,769

IN THE CLAIMS:

1. (Currently Amended) A method for sensing a temperature of a device, that comprises:
- establishing a programmable current for an on-chip current source;
- sensing a ~~temperature-dependant~~ temperature-dependent voltage that is based on a temperature dependent resistive ~~device~~ component and the programmable current, wherein the temperature-dependent voltage is maintained within a predetermined range, and wherein the temperature dependent resistive ~~device~~ component is thermally coupled to the device;
- converting the temperature-dependant voltage to a digital value; and
- equating the digital value to the temperature of the device.
2. (Original) The method of claim 1 further comprises adjusting the programmable current such that the temperature-dependent voltage is within a predetermined range of values for converting the temperature-dependent voltage into the digital value, wherein the equating of the digital value is further based on the adjusting of the programmable current.
3. (Currently Amended) The method of Claim 1, wherein the temperature dependent resistive ~~device~~ component comprises a thermistor.
4. (Original) The method of claim 1, wherein the equating the digital value to the temperature of the device further comprises determining the temperature of the device from a table relating digital values to temperatures.

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